

**TRIEL® 5722EM**

Samyang Corporation - Thermoplastic Polyester Elastomer

## General Information

**Product Description**

TRIEL® offers significant chemical resistance, thermal resistance, weatherability and low temperature flexibility.

**General**

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • North America
Uses	• General Purpose
Forms	• Pellets

 Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.25		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	6.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.017 to 0.020	in/in	ASTM D955
Water Absorption (24 hr, 73°F)	0.50	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	6040	psi	ASTM D638
Tensile Elongation (Break)	> 400	%	ASTM D638
Flexural Modulus	145000	psi	ASTM D790
Flexural Strength (Yield)	5260	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Unnotched Izod Impact			ASTM D4812
-40°F	1.8 to 2.4	ft-lb/in	
73°F	3.7 to 4.6	ft-lb/in	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	72		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	262	°F	ASTM D648
Vicat Softening Temperature	401	°F	ASTM D1525 <sup>2</sup>
Melting Temperature	421	°F	ASTM D2117

## Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> Rate B (120°C/h), Loading 1 (10 N)
